	Application No.	Applicant(s)
Notice of Allowability	10/692,166	FOCAZIO ET AL.
	Examiner	Art Unit	
	SHEW-FEN LIN	2166	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *10/15/2008*.

2. ☒ The allowed claim(s) is/are *40 (renumber as 1)*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None   of the:

        1. ☐ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date *1/6/2009* .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

DETAILED ACTION

a. This action is taken in response to amendments and remarks filed on 10/15/2008.

b. Claim 40 (renumber as 1) is allowed.

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone conversation with Applicant's attorney Rudolf O. Siegesmund on January 6, 2009 and January 12, 2009.

Please enter the amendment filed on 10/15/08 and further amend as follows:

1-39. (Canceled)

40. (New) A computer implemented process for creating a database query comprising:

receiving a template which contains a necessary query language for the database query and a plurality of placeholders, but lacks a plurality of clauses required for the database query to produce a desired output;

receiving a user entry of ~~the~~ a plurality of fields, ~~the~~ a plurality of filters, and a sort criteria;

responsive to receiving the user entry of the plurality of fields, the plurality of filters, and

the sort criteria, retrieving a plurality of aliases for the plurality of fields and the plurality of

filters from a column map of a database;

generating a SELECT clause within the plurality of clauses based on the plurality of

fields;

generating an ORDER BY clause within the plurality of clauses based on the sort criteria;

generating a first portion of a WHERE clause within the plurality of clauses based on the

plurality of filters;

creating a first <u>aliases</u> list, which is initially empty;

creating a second <u>aliases</u> list, which is initially empty;

determining whether each of the plurality of aliases is present in the first <u>aliases</u> list;

responsive to a determination a first alias from the plurality of aliases is not present in the

first <u>aliases</u> list, performing steps comprising:

when the template contains a FROM placeholder among the plurality of placeholders,

inserting the first alias with a matching table name into a FROM clause within the plurality of

clauses;

when the template does not contain the FROM placeholder among the plurality of

placeholders but contains a JOIN placeholder among the plurality of placeholders, inserting the

first alias with a matching table name <u>and join criteria</u> into a JOIN clause within the plurality of

clauses;

when the template contains neither the FROM placeholder among the plurality of

placeholders nor the JOIN placeholder among the plurality of placeholders, returning an error;

generating a second portion of the WHERE clause based on ~~a joining condition~~ the JOIN clause for the first alias;

~~joining the first portion and the second portion of the WHERE clause;~~

adding the first alias to the first aliases list;

adding the first alias and the second portion of the WHERE clause to the second aliases list, when the second portion of the WHERE clause depends on a second alias from the plurality of aliases, wherein the second aliases list contains a list of aliases, each of the aliases paired with a corresponding optional Where clause;

determining whether each of the plurality of aliases in the second aliases list is present in the first aliases list;

responsive to a determination that a third alias is present in both the second aliases list and the first aliases list, adding the optional Where clause corresponding to the third alias to the second portion of the WHERE clause;

adding the first portion and the second portion of the WHERE clause;

replacing the plurality of placeholders with the plurality of clauses;

wherein the database query joins only a plurality of tables from the database necessary to complete the query only when those aliases found in the first aliases list and in the second aliases list were added to the second portion of the WHERE clause; and

querying, using a computer, the database with only the set of necessary tables;

obtaining an output from the database; and

wherein unnecessary table joins are prevented.

Reason for Allowance

The following is an Examiner's statement of reasons for allowance:

The prior art made of records does not teach or fairly suggest the combination of elements, as recited in independent claim 40. More specifically, the prior art of records does not teach or suggest, independently or in combination, the combination of claimed elements including the specific features as argued by Applicant and further amended by an Examiner's Amendment.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SHEW-FEN LIN whose telephone number is (571)272-2672. The examiner can normally be reached on 8:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on 571-272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Shew-Fen Lin /S. L./
Examiner, Art Unit 2166
January 12, 2009

/Hosain T Alam/

Supervisory Patent Examiner, Art Unit 2166